L Number	Hits	Search Text	DB	Time stamp
1	32	cROSSLAND-WILLIAM-A.IN.	USPAT; US-PGPUB; EPO; JPO;	2004/06/07 14:58
2	6	cROSSLAND-WILLIAM-A.IN. and ((back adj plane) or (backplane))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; IBM TDB	2004/06/07 14:59
3	5	(cROSSLAND-WILLIAM-A.IN. and ((back adj plane) or (backplane))) and active	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2004/06/07 14:59
4	9	("4643526" "4682858" "4826297" "5381255" "5644373" "6151091" "6236444" "6373547" "6486936").PN.	USPAT	2004/06/07 15:01
_	71	kinoshita-masayoshi.in.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 15:59
-	0	depletion adj relm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 15:59
_	765	depletion adj region.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14
_	1552	backplane.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:00
_	0	(depletion adj region.clm.) and backplane.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:00
-	1548	biassed.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:01
_	5	(depletion adj region.clm.) and biassed.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:02
	1002998	(adjacent or spaced).clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:07
_	447	(depletion adj region.clm.) and ((adjacent or spaced).clm.)	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:09
_	4	((depletion adj region.clm.) and ((adjacent or spaced).clm.)) and biassed.clm.	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/14 16:13
-	71	((depletion adj region.clm.) and ((adjacent or spaced).clm.)) and diode.clm.	USPAT; US-PGPUB; EPO; JPO;	2003/05/14 16:16
-	2115949	@ad>19981219	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/05/14 16:17
_	59	(((depletion adj region.clm.) and ((adjacent or spaced).clm.)) and diode.clm.) not @ad>19981219	IBM_TDB USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/05/14 16:17

-	12	("3463977" "3978511" "4127932" "4137428" "4326211" "4383266" "4616247" "4631592" "4779126"	USPAT	2003/05/14 20:45
		"4805004" "4816890" "4866499").PN.		
-	5	"4816890"	USPAT; US-PGPUB; EPO; JPO;	2003/05/15
-	9	"5282018"	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/05/15 12:24
-	1	"4893160".PN.	IBM_TDB USPAT	2003/05/15
. –	19	"4646117"	USPAT; US-PGPUB; EPO; JPO;	2003/05/15
_	1	"6512263"	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/05/15 14:22
-	44	("4336603" "4380057" "4417264" "4477825" "4855955" "4885719" "5021999" "5043940" "5047362" "5070032" "5095344" "5095461" "5172338" "5210047"	IBM_TDB USPAT	2003/05/15 12:33
		"5278439" "5297148" "5313421" "5315341" "5343063" "5364806" "5411905" "5412600" "5414693" "5440158" "5486714" "5492846" "5576567" "5606521" "5616510" "5636160" "5643814" "5661053" "5679591" "5712180" "5714412" "5786612" "5812449" "5851879" "5991201" "6091633" "6103573" "6151248" "6329685").PN.		
_	33	("4336603" "4380057" "4417264" "4855955" "5021999" "5043940" "5070032" "5095344" "5095461" "5159570" "5172338" "5210047" "5278439" "5297148" "5313421" "5315541" "5343063" "5364806" "5411905" "5412600" "5414693" "5486714" "5576567" "5606521" "5616510" "5636160" "5643814" "5661053" "5712180" "5714412" "5786612" "5812449" "5991201"	USPAT	2003/05/15 12:34
_	9	"B15172338").PN. "5825063"	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/15 14:24
_	21660	"MEM"	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/15 14:24
_	22146	"MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/15 14:28
_	516	("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))) and ((substrate and capacitor) with (under or beneath))	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/15 14:29
-	390	(("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath)) and ((substrate and capacitor) with (under or beneath))) and (source and drain)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/05/15 14:29
L	L	\(\alpha + \alpha + \int 1)	1	

-	384	<pre>((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))) and ((substrate and capacitor)</pre>	USPAT; US-PGPUB; EPO; JPO;	2003/05/15 14:30
		with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)	IBM_TDB	
_	257	(((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or	USPAT; US-PGPUB;	2003/05/15 14:31
		beneath))) and ((substrate and capacitor) with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and	EPO; JPO; IBM_TDB	
_	0	<pre>(word adj line) and (bit adj line) ((((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or</pre>	USPAT; US-PGPUB;	2003/05/15 14:32
		beneath))) and ((substrate and capacitor) with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and	EPO; .JPO; IBM_TDB	
		(word adj line) and (bit adj line)) and (@ad<=1998)		
-	0	<pre>(((((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))) and ((substrate and capacitor)</pre>	USPAT; US-PGPUB; EPO; JPO;	2003/05/15
		with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and	IBM_TDB	
		(word adj line) and (bit adj line)) and (@pd<=1998)		0000 (05 (15
-	0	<pre>((((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))) and ((substrate and capacitor)</pre>	USPAT; US-PGPUB; EPO; JPO;	2003/05/15 14:35
		with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and	IBM_TDB	
		(word adj line) and (bit adj line)) and (@pd<=2001)		•
-	180	<pre>((((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or beneath))) and ((substrate and capacitor) with (under or beneath))) and (source and</pre>	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/05/15
		drain)) and (plate\$3 or electrode)) and (word adj line) and (bit adj line)) and (@pd<=20010310)	12.1_122	
-	134	(((((("MEM" or ((memory adj device) and (substrate and capacitor) with (under or	USPAT; US-PGPUB;	2003/05/15 14:35
		beneath))) and ((substrate and capacitor) with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and (word adj line) and (bit adj line)) and	EPO; JPO; IBM_TDB	
		(((((((("MEM" or ((memory adj device) and	USPAT;	2003/05/15
	U	(substrate and capacitor) with (under or beneath))) and ((substrate and capacitor)	US-PGPUB; EPO; JPO;	14:36
		with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and (word adj line) and (bit adj line)) and	IBM_TDB	
		(@pd<=20010310)) and (@pd<=19981219)) and backplane		
-	56		USPAT; US-PGPUB; EPO; JPO;	2003/05/15 15:03
		with (under or beneath))) and (source and drain)) and (plate\$3 or electrode)) and	IBM_TDB	
		(word adj line) and (bit adj line)) and (@pd<=20010310)) and (@pd<=19981219)) and address		
-	4	l	USPAT	2003/05/15 14:45
-	5	5237528.URPN.	USPAT	2003/05/15
_	6	("5155573" "5166090" "5237528" "5455192" "5795804" "6018177").PN.	USPAT	2003/05/15
_	4		USPAT	2003/05/15 14:51

	4	("3962713" "4327476" "4432006"	USPAT	2003/05/15
_	1	"4688063").PN. "4786954".PN.	USPAT	14:52 2003/05/15
-		4700354 .FN.	OBITH	14:57
-	3	("3962713" "4327476" "4432006").PN.	USPAT	2003/05/15
		4001100 HDDN	USPAT	14:58 2003/05/15
-	3	4901128.URPN.	USPAI	14:58
_	5		USPAT;	2003/05/15
		("6512263") or ("5223919") or	US-PGPUB;	15:06
	[("5825063")).PN.	EPO; JPO; IBM TDB	
_	6	"4901128"	USPAT;	2003/05/15
			US-PGPUB;	15:22
			EPO; JPO; IBM TDB	
_	3	("3962713" "4327476" "4432006").PN.	USPAT	2003/05/15
		(3502713	022112	15:15
-	1	("5825063").PN.	USPAT;	2003/05/15
			US-PGPUB; EPO; JPO;	15:22
			IBM TDB	
_	7	"5214496"	USPAT;	2003/05/28
			US-PGPUB;	11:12
			EPO; JPO; IBM TDB	
_	5	(("20020185684") or ("6479854") or	USPAT;	2003/05/28
		("6344413") or ("6251720") or	US-PGPUB;	11:13
		("6269018")).PN.	EPO; JPO; IBM TDB	
_	0	semiconductor adj active adj plane	USPAT;	2003/12/16
			US-PGPUB;	18:01
			EPO; JPO;	
	2	 semiconductor adj active adj backplane	IBM_TDB USPAT;	2003/12/16
-		Semiconductor adj active adj baonprane	US-PGPUB;	18:05
			EPO; JPO;	
	0	20030174117.URPN.	IBM_TDB USPAT	2003/12/16
_	0	200301/411/.ORPN.	OSIAI	18:02
-	82	active adj backplane	USPAT;	2003/12/16
			US-PGPUB; EPO; JPO;	18:05
			IBM TDB	
_	82	(active adj backplane) not	USPAT;	2003/12/16
		20030174117.URPN.	US-PGPUB;	18:05
			EPO; JPO; IBM TDB	
_	80	(active adj backplane) not (semiconductor	USPAT;	2003/12/16
		adj active adj backplane)	US-PGPUB;	18:05
			EPO; JPO; IBM TDB	
_	11	((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:06
		and (pixel and transistor)	EPO; JPO; IBM TDB	
_	11	(((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:06
		and (pixel and transistor)) and (activ\$4	EPO; JPO;	
	11	or energi\$4) ((((active adj backplane) not	IBM_TDB USPAT;	2003/12/16
_		(semiconductor adj active adj backplane))	US-PGPUB;	18:06
		and (pixel and transistor)) and (activ\$4	EPO; JPO;	
	8	or energi\$4)) and electrode (((((active adj backplane) not	IBM_TDB USPAT;	2003/12/16
-	8	(semiconductor adj active adj backplane))	US-PGPUB;	18:07
		and (pixel and transistor)) and (activ\$4	EPO; JPO;	
		or energi\$4)) and electrode) and	IBM_TDB	
		(capacit\$4)	<u></u>	

-	6	(((((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:26
		and (pixel and transistor)) and (activ\$4	EPO; JPO;	
		or energi\$4)) and electrode) and	IBM_TDB	
	_	(capacit\$4)) and diode		
-	45	("4090219" "4508429" "4634226"	USPAT	2003/12/16
		"4709995" "4864290" "4969119"		18:12
	!	"4976515" "4978952" "5011269"		
		"5061049" "5083857" "5093652"		
		"5096279" "5122791" "5128782"		
		"5170156" "5178445" "5189406"		
		"5192946" "5206629" "5214420"		
		"5225823" "5233447" "5254980"		
		"5255100" "5278652" "5280277" "5287096" "5303055" "5339090"		
		"5339116" "5359345" "5365283"		
		"5436742" "5448314" "5465168"		
		"5483307" "5497172" "5499062"		
		"5506597" "5523803" "5548301"		
		"5589852" "5606342" "5705424").PN.		
_	0	6570550.URPN.	USPAT	2003/12/16
ļ	1			18:13
_	2	((((((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:27
		and (pixel and transistor)) and (activ\$4	EPO; JPO;	
		or energi\$4)) and electrode) and	IBM TDB	
		(capacit\$4)) not (((((active adj	_	
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor)) and (activ\$4 or energi\$4))		
	1	and electrode) and (capacit\$4)) and		
		diode)		
-	2	(((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:29
		not (((active adj backplane) not	EPO; JPO;	
		(semiconductor adj active adj backplane))	IBM_TDB	
		and (pixel and transistor))) and		
		(address\$4 and (active adj element))	IICDAM -	2002/12/16
-	42		USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:34
		not ((((active adj backplane) not	EPO; JPO;	
		(semiconductor adj active adj backplane)) and (pixel and transistor)) or	IBM_TDB	
		and (pixel and transistor); or ((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) not ((((((active adj		
		backplane not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor)) and (activ\$4 or energi\$4))		
		and electrode) and (capacit\$4)) and		
		diode)) or ((((active adj backplane) not		
	1	(semiconductor adj active adj backplane))		
		not (((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor))) and		
		(address\$4 and (active adj element))))		
		and (address\$4))	L	

-	0	((((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:30
		not ((((active adj backplane) not (semiconductor adj active adj backplane))	EPO; JPO; IBM TDB	
		and (pixel and transistor)) or	101-100	
		((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) not ((((((active adj):	
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor)) and (activ\$4 or energi\$4))		
		and electrode) and (capacit\$4)) and		
		diode)) or ((((active adj backplane) not		
		(semiconductor adj active adj backplane))	•	
		not (((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		<pre>and (pixel and transistor))) and (address\$4 and (active adj element))))</pre>		
		and (address\$4))) and (conduct\$4 with		
		metal)		
_	21	((((active adj backplane) not	USPAT;	2003/12/16
		(semiconductor adj active adj backplane))	US-PGPUB;	18:30
		not ((((active adj backplane) not	EPO; JPO;	
		(semiconductor adj active adj backplane))	IBM_TDB	l
		and (pixel and transistor)) or	_	
		((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) not ((((((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4))		
		and electrode) and (capacit\$4)) and		
		diode)) or ((((active adj backplane) not		
1		(semiconductor adj active adj backplane))		
		not (((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor))) and		
		(address\$4 and (active adj element))))		
		and (address\$4))) and (conduct\$4)	HCDAM.	2002/12/16
-	12		USPAT;	2003/12/16 18:32
		(semiconductor adj active adj backplane))	US-PGPUB; EPO: JPO:	10.32
		not ((((active adj backplane) not (semiconductor adj active adj backplane))	IBM TDB	
		and (pixel and transistor)) or		
		(((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
1	1	or energi\$4)) and electrode) and		
		(capacit\$4)) not ((((((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and	1	
		transistor)) and (activ\$4 or energi\$4))	[
		and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not		
	1	(semiconductor adj active adj backplane)		
		not (((active adj backplane) not		
		(semiconductor adj active adj backplane))		
	1	and (pixel and transistor))) and		
1		(address\$4 and (active adj element))))		
1		and (address\$4))) and (conduct\$4)) and		
		(dop\$5 or deplet\$4)		L

Semiconductor and active add backplane) Insert Constitution			11111	Transm.	2007/12/16
not ((((active ad) backplane)) or (semiconductor ad) active ad) backplane)) and (pixel and transistor)) or ((((((active) ad) backplane)) and (pixel) and transistor)) and (active) and (active) and (active) ad) backplane) not (semiconductor ad) active ad) backplane) not ((active ad) backplane) not (semiconductor ad) active ad) backplane)) not (((active ad) backplane)) not ((semiconductor ad) active ad) backplane)) not ((semiconductor ad) active ad) backplane)) not (((active ad) backplane)) not ((((active ad) backplane)) not (((active ad) backplane)) not ((semiconductor ad) active ad) backplane)) not (semiconductor ad) active ad) backplane)) not (semiconductor ad) active ad) backplane)) not ((((active ad) backplane)) not ((((active ad) backplane)) not (((((active ad) backplane))) not ((((active ad) backplane))) not ((((active ad) backplane)) not (((((active ad) backplane))) not ((((active ad) backplane))) not ((((active ad) backplane))) not ((((active ad) backplane))) not (((active ad) backplane)) not ((((active ad) backplane))) not (-	9	(((((active adj backplane) not	USPAT;	2003/12/16
(semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((((atcive adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activs4 or energis4)) and electrode) and (capacit64)) not ((((((atcive adj active adj backplane)) and (pixel and transistor)) and (activs4) or energis4)) and electrode) and (icapacit64)) and (capacit64)) and diode)) or ((((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address4) and (active adj backplane)) and (pixel and transistor))) and (address4) abackplane) not ((((active adj backplane)) not (((((active adj backplane))) not ((((active adj backplane))) not (((semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane)))) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) not ((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not ((active adj backplane)) not (active adj backplane)) not (act					18:32
and (pixel and transistory) or (((((((active adj backplane)) and (pixel) and transistory) and (activ§4 or energi§4)) and electrode) and ((capacit§4)) not (((((active ad) backplane)) and (pixel) and transistory) and (activ§4) or energi§4)) and electrode) and (capacit§4)) and diode) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel) and transistory) and (addresar(4)) and (conduct§4)) not ((((active adj backplane)) not (((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) and (pixel) and transistory) or (((((((active adj backplane))) and (pixel) and transistory) or (((((((active adj backplane))) and (pixel) and transistory) and (activ§4) (capacit§4)) not ((((((active adj backplane))) and (pixel) and transistory) and (activ§4) (capacit§4)) not ((((((active adj backplane))) and (pixel) and transistory) and (activ§4) (capacit§4)) and (conduct§4) and electrode) and (capacit§4)) and diode)) or (((((active adj backplane))) and (address§4) and (activ§4) or energi§4)) and (address§4) and (activ§4) or energi§4)) and (address§4) and (activ§4) or energi§4)) and (address§4) and (activ§4) or energi§4) and (address§4) and (activ§4) adj activ§4 adj backplane) not (semiconductor adj activ§4 adj backplane) not (semiconductor adj activ§4) adj backplane) not (semiconductor adj activ§4) adj backplane) not (semiconductor adj activ§4) and electrode) and (acpacit§4)) not (((((((activ§4)))) and (activ§4) or energi§4)) and (activ§4) and electrode) and (capacit§4)) and (activ§4) and electrode) and (capacit§4)) and (activ§4) and (activ§4) or energi§4)) and (activ§4) and (activ§4) or energi§4)) and (activ§4) and electrode) and (activ§4) artiv§4) and ele					
((((((((attive adj backplane)) and (pixel) and (pixel) and (pixel) and (pixel) and (activ34) or energi34)) and electrode) and (capacits4) not (((((((((attive adj backplane))) and (pixel) and add (capacits4)) and ((capacits4)) and (((((attive adj backplane))) and (((((((attive adj backplane)))) and ((((((((attive adj backplane))))) and (((((((((attive adj backplane)))))) and ((((((((((attive adj backplane)))))) and (((((((((((attive adj backplane)))))) and (((((((((((((((((((((((((((((((((((IBM_IDB	
(semiconductor adj active adj backplane) and (pixel and transistor) and (activ94) or energi94) and electrode and (capacit54) not ((((((active adj backplane)) and (pixel and transistor)) and (activ94 or energi94) and electrode and (capacit94) and electrode and (capacit94) and el					
and (pixel and transistor)) and (activ§4 or energis¾) and electrode) and (capacits¼) not (((((((active adj) backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ§4) or energis¾)) and electrode) and (capacits¾)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) ((((active adj backplane))) and (pixel and transistor)) and ((address¾ and (active adj element)))) and (address¾)) and (conduct¾) not (((((citvie adj backplane))) (((((((active adj backplane)))) and (pixel and transistor)) or (((((((active adj backplane)))) and (pixel and transistor)) or (((((((active adj backplane)))) and (pixel and transistor)) or ((((((((active adj backplane))))) and (pixel and transistor)) or ((((((((((active adj backplane)))))) and (pixel and transistor)) and (activ§4) or energis¾)) and (electrode) and (capacits¾)) not (((((((((((active adj backplane))))))) and (address¾)) and (((((((((((((((((((((((((((((((((((
or energis(4)) and electrode) and (capacits(4)) not ((((((active ad) backplane)) not ()) and (pixel and transistor)) and (activs(4) or energis(4)) and electrode) and (capacits(3)) and diode)) or ((((active ad) backplane)) and (pixel and transistor)) and (active ad) backplane)) and (pixel and transistor)) and (address(4)) and (capacits(4)) not ((((((active ad) backplane))) and (address(4)) and (capacits(4)) not ((((((active ad) backplane))) and (address(4)) and (capacits(4)) not ((((((active ad) backplane))) and (pixel and transistor)) or (((((((active ad) backplane))) and (pixel and transistor)) and (pixel and transistor)) and (pixel and anasistor) ((((((active ad) backplane))) and (pixel and anasistor)) and (pixel and anasistor) ((((((active ad) backplane))) and (pixel and anasistor)) and (pixel and anasistor)) and (pixel and anasistor) (((((((active ad) backplane)))) and (pixel and anasistor)) and (pixel and anasistor) ((((((((active ad) backplane)))) and (pixel and anasistor)) and (pixel and anasistor)) and (capacits(4)) and (capacits(4)) and electrode) and (capacits(4)) and diode)) or ((((((((active ad) backplane))) and (pixel and transistor)) and (active ad) backplane) not ((((active ad) backplane)) and (pixel and transistor)) and (pixel and transistor)) and (pixel and transistor)) and (pixel and transistor)) and (pixel and (active ad) backplane) and (pixel and (active ad) element))) and (address(4) and (active ad) element))) and (address(4) and (active ad) element)) and (pixel and (active ad) element)) and (pixel and (active ad) backplane) not ((((active ad) backplane)) and (pixel and (active ad) backplane) and (pixel and transistor)) and (active ad) backplane) not (semiconductor ad) active ad) backplane) not (semiconductor ad) and (pixel and transistor)) and (active(active ad) backplane) not (semiconductor ad) active ad) backpl					
(capacits4) not (((((((active adj active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (active dy backplane) not ((semiconductor adj active adj backplane) not ((semiconductor adj active adj backplane)) and pixel and transistor) and (active adj backplane) and pixel and transistor) and ((((active adj backplane))) and (((((active adj backplane))) and (((((active adj backplane)))) and (((((active adj backplane))) and (((((active adj backplane)))) and (((((((active adj backplane)))) and (((((((active adj backplane)))) and (((((((active adj backplane))))) and ((((((((active adj backplane))))) and (((((((((active adj backplane))))) and ((((((((((((((active adj backplane))))))) and (((((((((((((((((((((((((((((((((((
backplane) not (semiconductor adj active adj backplane) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode and (capacit\$4)) and diode)) or (((active adj backplane) not (semiconductor adj active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4)) and (conduct\$4)) not (((active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((((((active adj backplane)) not (((((((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (active\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode and (capacit\$4)) and (address\$4)) and (address\$4) and (address\$4)) and (address\$4) and (active adj backplane) not ((active adj backplane)) and (pixel and transistor)) and (active adj backplane) and (pixel and transistor)) and (active adj backplane) not ((active adj backplane)) and (pixel and transistor)) and (active adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane) and (pixel and transistor)) and (active adj backplane) not (semiconductor adj active adj					
adj backplane)) and (pixel and transistor)) and (active's or energis*(1)) and electrode) and (capacit*(4)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address*(4)) and (address*(4))) and (address*(4)) not ((((((active adj backplane)) not (((((((active adj backplane)) not (((((((active adj backplane)) not (((((((active adj backplane)) not ((((((active adj backplane)) not (((((((active adj backplane)) not ((((((active adj backplane)) not ((((((active adj backplane)) not (((((active adj backplane)) not (((((active adj backplane)) not (((((active adj backplane)) not ((((((active adj backplane)) not ((((((active adj backplane)) not (((((((active adj backplane)) not (((((((active adj backplane)) not ((((((((active adj backplane)) not (((((((((((((((((((((((((((((((((((
transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj backplane)) and (address\$4))) and (conduct\$4)) not (((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not (((active adj backplane)) and ((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and (active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (activ\$4) (adpress\$4 and (active adj backplane)) and (pixel and transistor))) and (address\$4))) and (conduct\$4)) and (address\$4)) and (conduct\$4)) and (address\$4)) and (conduct\$4)) and (address\$4)) and (conduct\$4) (active adj backplane)) not (((active adj backplane)) and (address\$4)) and (conductor adj active adj backplane)) not (((active adj backplane)) and transistor)) or (((((active adj backplane))) and electrode) and (pixel and transistor)) or (((((active adj backplane))) and electrode) and (active adj backplane)) and electrode) and (active adj backplane)) and electrode) and (active adj backplane)) and pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and active adj backplane) and (pixel					
and electrode) and (capacits4)) and diode) or (((lactive adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4 and (active adj element))) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) not (((((lactive adj backplane) not ((semiconductor adj active adj backplane)) not ((((active adj backplane) not ((((active adj backplane) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activs4) or energis4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4) and electrode) and (capacit\$4) and electrode) and (capacit\$4) and electrode) and (capacit\$4) and electrode) and (capacit\$4)) a	{				
diode) or ((((active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not (((semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4)) and (conduct\$4)) not ((((((((((attive adj backplane) not ((((active adj backplane)) not (((((((((attive adj backplane)) and (pixel and transistor))) and (activ\$4) or energi\$4)) and ((capacit\$4)) not ((((((((((attive adj backplane)) and (capacit\$4))) not ((((((((attive adj backplane)) not ((((active adj backplane)) not (((((((((attive adj backplane)) not ((((((((attive adj backplane)) not (((((((((attive adj backplane)) not (((((((((((attive adj backplane)) not (((((((((((((attive adj backplane)) not (((((((((((((((((((((((((((((((((((i
(semiconductor adj active adj backplane) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4 and (active adj backplane)) not ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane)) and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4) and (address\$4 and (active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element))) and (address\$4 and (active adj element)) - "3592686" "4158220" "4241381" "4755145" "85627264" "5023754" "5233677" "5287244" "5390081" "5223677" "5287244" "5390081" "522464" "5390081" "522464" "5390081" "522464" "5390081" "522464" "5390081" "5223677" "65072975" "5287244" "5390081" "5287244" "5390081" "5287244" "5390081" "528845" "6022754" Not (((((((active adj backplane)) not (((((active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and (electrode) and (capacit\$4)) and (capacit\$4)) and diode) or ((((active a			and electrode) and (capacit\$4)) and		
not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4) not (((((((((attive adj backplane) not ((((attive adj backplane) not ((((attive adj backplane) not ((((attive adj backplane) not ((((attive adj backplane) not (((((((((attive adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((((((attive adj backplane)) and (pixel and transistor))) and (activ\$4 or energi\$4)) and ((apacit\$4)) not (((((((((((attive adj backplane)) not (semiconductor adj active adj backplane)) and (abckplane)) and (pixel and transistor)) and (attiv\$4 or energi\$4)) and electrode) and (capacit\$4)) and (dode)) or (((((((((attive adj backplane)) not ((((attive adj backplane)) not (((((((((attive adj backplane)) not (((((((((((((((((((((((((((((((((((
(semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) not ((((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and electrode) and (dode)) or ((((active adj backplane)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and (pixel and transistor)) and (ackplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj backplane)) and (address\$4 and (active adj backplane)) and (address\$4 and (active adj element))) and (address\$4 and (active adj element))) and (address\$4 and (active adj backplane) - "3992666" "4158220" "4241381" "4755145" "4862226" "5023754" "5136470" "5162977" "5185502" "5233677" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5023754" "5528467" "5617299" "56592955").PN. 40 (active adj backplane) not ((((active adj backplane)) and (pixel and transistor)) and (pixel and (capacit\$4)) and (econductor adj active adj backplane) not (semiconductor adj active adj backplane) and (pixel and transistor)) and (activs\$4 or energi\$4) and electrode) and (capacit\$4)) and (capacit\$4)) and (capacit\$4)) and (active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) and (adtoxe adj backplane)) and (pixel and transistor)) and (adtoxe adj backplane)) and (pixel and transistor)) and (adtoxe adj backplane)) and (pixel and transistor)) and (pixel and transistor)) and (pixel and transistor)) and (pixel and t					
and (pixel and transistor)) and (address\$4) and (active adj element))) and (address\$4))) and (conduct\$4)) not (((((((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) not (((((((((active adj backplane)) and (pixel and transistor)) and (activ\$4) and backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4) or energi\$4)) and (adceps\$4)) and (activ\$4 or energi\$4)) and ((active adj backplane)) not ((((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4) and (active adj backplane)) and (pixel and transistor))) and (address\$4) and (active adj backplane)) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) 18 ("3992666" "4159220" "4241381" "4755145" "486226" "5023754" "5136470" "5162977" "51859021" "5233677" "5287244" "5330081" "5233677" "5287244" "5330081" "5233677" "516297" "5165971" "5233677" "516297" "5165975" "5233677" "516297" "5165975" "5233677" "516297" "5165975" "5233677" "516297" "5165975" "523646" "617299 "6569245") "5233677" "516297" "5165975" "5233677" "516297" "5165975" "5233677" "516297" "5165975" "523646" "617299 "6569245") "523646" "617299 "6569245") "523646" "617299 "669245") "523646" "617299 "669245" "523646" "617299 "669245" "523646" "617299 "669245" "523646" "617299 "669245" "523646" "617299 "669245" "523646" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "669245" "523647" "617299 "523647" "617299 "523647" "617299 "6237544" "617299					
(address\$4 and (active adj element))) and (address\$4)) not (((((active adj backplane) not ((((((active adj backplane) not ((semiconductor adj active adj backplane)) not (((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4) and (activ\$4 or energi\$4)) and (address\$4) and (conduct\$4)) and (dop\$5 or deplet\$4)) 18 ("3992666" "4158220" "4241381" "4755145* "4560226* "5023754" "5136470" "516297" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245"),PN. do (active adj backplane) not (((active adj backplane)) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (active adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (active adj backplane) not (((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor)) and (acdre			(semiconductor adj active adj backplane))		
and (address\$4)) and (conduct\$4)) not ((((((((((((((((((((((((((((((((((((and (pixel and transistor))) and		
((((((active adj backplane) not (semiconductor adj active adj backplane)) not (((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activs4 or energis4)) and electrode) and (capacits4)) not (((((((active adj backplane)) not adj backplane)) and (pixel and transistor)) and (activs4 or energis4)) and electrode) and (capacits4)) and electrode) and (capacits4)) and (semiconductor adj active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (addresss4) and (active adj element))) and (addresss4) and (conducts4)) and (dops5 or deplets4)) - 18 ("3992666" "4158220" "4241381" "4755145- "4862226" "5023754" "5136470" "5162977" "5165502" "5223677" "5165926" "5023754" "5528464" "5617299" "5689245").PN. 40 (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) not ((((active adj backplane))) and (pixel and transistor)) ond ((active adj backplane)) and (pixel and transistor)) on ((((((((active adj backplane)))) and (activs4 or energis4)) and (electrode) and (capacits4)) not (((((((active adj backplane)))) and (activs4 or energis4)) and (electrode) and (capacits4)) not (((((((active adj backplane)))) on ((((active adj backplane))) on ((((active adj backplane))) on ((((active adj backplane))) and (active adj backplane)) not (((active adj backplane))) and (active adj backplane)) not (((active adj backplane))) and (active adj backplane)) not (((active adj backplane)) and (backplane)) not (((active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) not (active adj backplane)) not ((<pre>(address\$4 and (active adj element))))</pre>		
((((((active adj backplane) not (semiconductor adj active adj backplane)) not (((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activs4 or energis4)) and electrode) and (capacits4)) not (((((((active adj backplane)) not adj backplane)) and (pixel and transistor)) and (activs4 or energis4)) and electrode) and (capacits4)) and electrode) and (capacits4)) and (semiconductor adj active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (addresss4) and (active adj element))) and (addresss4) and (conducts4)) and (dops5 or deplets4)) - 18 ("3992666" "4158220" "4241381" "4755145- "4862226" "5023754" "5136470" "5162977" "5165502" "5223677" "5165926" "5023754" "5528464" "5617299" "5689245").PN. 40 (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) not ((((active adj backplane))) and (pixel and transistor)) ond ((active adj backplane)) and (pixel and transistor)) on ((((((((active adj backplane)))) and (activs4 or energis4)) and (electrode) and (capacits4)) not (((((((active adj backplane)))) and (activs4 or energis4)) and (electrode) and (capacits4)) not (((((((active adj backplane)))) on ((((active adj backplane))) on ((((active adj backplane))) on ((((active adj backplane))) and (active adj backplane)) not (((active adj backplane))) and (active adj backplane)) not (((active adj backplane))) and (active adj backplane)) not (((active adj backplane)) and (backplane)) not (((active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) not (active adj backplane)) not ((and (address\$4))) and (conduct\$4)) not		
(semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (activ34) or energi34)) and electrode) and (capacit34)) not (((((((active adj backplane)) and (capacit34)) and (pixel and transistor)) and (activ34) and electrode) and (capacit34)) and (dodes) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4))) and (address\$4))) and (conduct34)) and (address\$4))) and (conduct34)) and (address\$4))) and (conduct34) and (dop\$5 or deplet\$4) "4450029" "4717344" "4719541" "4755145" "486226" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5517299" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane)) not (semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane))) and (pixel and transistor)) and (activ34 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane)))) and (activ34 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane)))) and (activ34 or energi\$4)) and electrode) and (capacit\$4)) and dode)) or (((((active adj backplane))) and (activ34 or energi\$4)) and electrode) and (capacit\$4)) and dode)) or (((((active adj backplane))) and (active adj backplane)) not (semiconductor adj active adj backplane) not ((active adj backplane)) and (acdress\$4) and (active					
not (((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((active adj backplane)) and backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4))) and (address\$4))) and (address\$4))) and (address\$4))) and (address\$4)) ""4759145" "4962326" "4158220" "4241381" USPAT "4759145" "4759145" "4759145" "4759145" "5162977" "51659217" "51659217" "5163670" "5162977" "51659217" "5163670" "5162977" "51659215" "N. (active adj backplane) not ((((active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and (capacit\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and (capacit\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and (capacit\$4)) and (activ\$4 or energi\$4)) and (pixel and transistor) or ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4) not (((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4) not ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4) not ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4)] and electrode) and (activ\$4 or energi\$4) and elec					
(semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane) not (semiconductor adj active adj backplane))) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit34)) not ((((((active adj backplane)) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit34)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address34)) and (address34) "3992686" "4158220" "4241381" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "518799" "5185502" "5233677" "518799" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane)) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit34)) not (((((((active adj backplane)) not ((((active adj backplane))) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit34)) not ((((((((active adj backplane)))) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit34)) and (activ34 or energi34)) and electrode) and (capacit34)) and dactive adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane) not (semiconductor adj active adj					
and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (activ\$4)	1				
((((((((active adj backplane)) and (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit54)) not ((((((active adj backplane)) and (pixel and transistor)) and (activ34 or energi34)) and electrode) and (capacit54)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) and (address34 and (active adj element))) and (address34 and (active adj element))) and (address34)) and (enderss34)) and (enderss34)) and (enderss34)) and (enderss34)) and (enderss34) and (enderss34)) and (enderss34) and (enderss34)) and (enderss34) and (enderss34)) and (enderss34) and (enderss34)) and (enderss34) and					
(semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (activ\$4 adj backplane)) and (pixel and transistor))) and (address\$4)) ("3992686" "4158220" "4241381" "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5523864" "5517299" "5659245").PM. 40 (active adj backplane) not ((((active adj backplane)) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane))) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (address\$4) not (((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (address\$4) not (((((((active adj backplane)))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (address\$4) active adj backplane) not ((((active adj backplane)) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) and (active adj backplane) not (semiconductor adj active adj backplane)) and (active adj backplane) not (semiconductor adj active adj backplane)					
and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and ((address\$4)) and ((address\$4)) and ((address\$4)) and ((address\$4))) and ((address\$4))) and ((address\$4)) and (((address\$4))) and ((((active adj backplane)) and (((((active adj backplane)) and (((((((((active adj backplane))) and (((((((((((active adj backplane))) and ((((((((((((active adj backplane))) and (((((((((((((((((((((((((((((((((((1
or energis(1) and electrode) and (capacits(1)) not ((((((cative adj backplane)) and (pixel and transistor)) and (activ(1)) and electrode) and (capacits(1)) and (adiode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address(1)) and (active adj backplane) and (address(1)) and (active adj backplane) and ((((active adj backplane)) and ((((active adj backplane)) and (address(1)) and (address(1)) and (address(1)) and (address(1)) and (address(1)) and (activ(1)) and					1
(capacit\$4) not (((((((((active adj backplane)) and (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj backplane)) and (address\$4 and (active adj element))) and (address\$4) and (conduct\$4)) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) - 18 ("3992686" "4158220" "4241381" "4755145" "4755145" "4755145" "4755145" "5185502" "5233677" "5283267" "5185502" "5529464" "5617299" "5569245") PN. - 40 (active adj backplane) not ((((active adj backplane)) not (((semiconductor adj active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane)) not ((((active adj backplane))) and (pixel and (capacit\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) and pixel and transistor)) and (active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)					
backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) - 18 ("3992686" "4158220" "4241381" USPAT 2003/12/16 "4458020" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5287244" "5390081" USPAT; US-pGPUB; BED; JPO; Dackplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (backplane) not (((active adj backplane)) and (backplane)) and (backplane)) and (backplane)) and (backplane)) and (backplane)) and (backplane)) and (backplane) and (backplane)) and (backplane) and (backplane)) and (backplane) and					
adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capaci\$4)) and diode)) or ((((active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element)))) and (address\$4)) and (cop\$5 or deplet\$4)) - 18 ("3992666" "4158220" "4241381" USPAT 2003/12/16 "4450029" "4717344" "4719541" "475145" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" USPAT; US-PGPUB; adj backplane) not ((((active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4) not ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (capacit\$4)) and electrode) and (capacit\$4) and diode)) or ((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4)) and (capacit\$4)) and diode)) or ((((active adj backplane)) not ((semiconductor adj active adj backplane) not (semiconductor adj active adj backplane) not (mactiv\$4 or energi\$4)) and (activ\$4 or energi\$4) and (activ\$4 or energi\$4) and (activ\$4 or energi\$4) and (activ\$4 or energi\$4) and (activ\$4 or ene					
transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) 18 ("3992686" "4158220" "4241381" "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "523864" "5617299" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane)) not (((((active adj backplane)) not ((((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((((active adj backplane)) not ((((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4) active adj backplane) not (((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4) active adj backplane) not (((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4) active adj backplane) not (((active adj backplane)) and (pixel and transistor))) and (activ\$4 or energi\$4)) and (activ\$4 or energi\$4) active adj backplane) and (pixel and transistor))) and (activ\$4 or energi\$4) active adj backplane) and (pixel and transistor))) and (activ\$4 or energi\$4)				İ	
and electrode) and (capacit\$4) and diode)) or (((active adj backplane) not ((semiconductor adj active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4) and (dop\$5 or deplet\$4) ("3992686" "4158220" "4241381" "475145" "475145" "475145" "475145" "5162977" "5185274" "533677" "5287244" "5390081" "5528464" "5517299" "5659245").PN. (active adj backplane) not (((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) and (pixel and transistor)) or (((((active adj backplane))) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (capacit\$4) not ((((((active adj backplane)))) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane) and (capacit\$4) and diode) or ((((active adj backplane)) and (pixel and transistor)) and (active adj backplane) not (semiconductor adj active adj backplane) not (((active adj backplane)) and (backplane)) and (backplane) and (bac			transistor)) and (activ\$4 or energi\$4))		
diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4) and (active adj element))) and (address\$4)) and (address\$4)) and (address\$4)) and (address\$4)) and (address\$4)] and (active adj backplane)) and (active adj backplane) and (address\$4) and (active adj backplane)					
(semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element)))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. (active adj backplane) not ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor))) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane))) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and dode) or ((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and dode) or ((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and dode)) or ((((active adj backplane)) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not ((active adj backplane)) not (semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) not (semiconductor adj active adj backplane)) not (active adj backplane)					
not (((active adj backplane) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) ("3992686" "4158220" "421381" "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane))) not ((((active adj backplane))) not ((((active adj backplane))) and (pixel and transistor)) or ((((((active adj backplane))) and (pixel and transistor))) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane)))) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (activ\$4					1
(semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active adj element)))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) ("3992686" "4158220" "4241381" USPAT 2003/12/16 "4350145" "4458220" "5023754" "458029" "4719541" "4719541" "4719541" "4719541" "5392081" "533677" "5182977" "5185502" "5233677" "5612299" "559245").PN. 40 (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) not (((((active adj backplane))) and (pixel and transistor)) or (((((((((((active adj backplane))) and (activ\$4)) not (((((((((((active adj backplane))) and (activ\$4))) not ((((((((((((active adj backplane))) and (activ\$4))) not (((((((((((((active adj backplane))) and (activ\$4))) and (activ\$4) or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (((((((((((active adj backplane))) not (((((((((((((((((((((((((((((((((((
and (pixel and transistor)) and (address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) - 18 - 2003/12/16 - 2003			/comiconductor add active add backplane)		
(address\$4 and (active adj element))) and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) ("3992686" "4158220" "4241381" "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane)) not (((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$41) not ((((((((active adj backplane)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and code)) or ((((active adj backplane)) not (((active adj backplane)) active adj backplane)) not (((active adj backplane)) not ((active adj backplane)) not (((active adj backplane)) not ((active a					ļ
and (address\$4)) and (conduct\$4)) and (dop\$5 or deplet\$4)) ("3992686" "4158220" "4241381" USPAT 2003/12/16 "4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and electrode) and electrode) and electrode) and electrode)					
(dop\$5 or deplet\$4)) ("3992686" "4158220" "4241381"			(address)4 and (active adj element)))		
18					
"4450029" "4717344" "4719541" "4755145" "4862326" "5023754" "5136470" "5136470" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. 40 (active adj backplane) not ((((active adj backplane) not (semiconductor adj active adj backplane) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane)) and (pixel and transistor)) and (activé adj backplane)) and (pixel and transistor)) and (activé adj backplane) not ((((((((active adj backplane)) and (activé)4)) and electrode) and (capacité)) and (activé)4 or energié)) and (pixel and transistor)) and (activé)4 or energié)1) and (pixel and transistor)) and (activé)4 or energié)1) and (pixel and transistor) and (activé)4 or energié)1) and (activé)4 or energié)1) and (activé)4 or energié)1) and electrode) and (capacité)1) and electrode) and (capacité)1) and electrode) and (capacité)1) and electrode) and (capacité)1) and (activé)2 adj backplane) not (semiconductor adj active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)) and (pixel and transistor))) and (addressé4 and (active)3 active adj backplane)3 and (pixel and transistor))		1.0		IIGDAT	2003/12/16
"4755145" "4862326" "5023754" "5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "56592245").PN. (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane))) and (pixel and transistor)) or (((((((active adj backplane))) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (capacit\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane))) and (active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane))) and (active adj backplane)) not (((active adj backplane))) and (pixel and transistor))) and (pixel and transistor))	-	18		OSPAI	
"5136470" "5162977" "5185502" "5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. (active adj backplane) not (((active adj backplane)) not (((active adj backplane)) not (((active adj active adj backplane)) and (pixel and transistor)) or (((((active adj backplane)) and (pixel and transistor)) and (activs adj backplane)) and (pixel and transistor)) and (activs adj backplane) and (capacits 4)) not ((((((active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (activs 4 or energis 4)) and electrode) and (capacits 4)) not (((active adj backplane)) not ((active adj backplane)) not ((active adj backplane)) and (pixel and transistor)) and (address 4 and (active					10.55
"5233677" "5287244" "5390081" "5528464" "5617299" "5659245").PN. (active adj backplane) not ((((active adj backplane)) not ((semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((active adj backplane))) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) not (((active adj backplane))) and (pixel and transistor))) and (address\$4 and (active			"4/35143" "4002320 3023734		
"5528464" "5617299" "5659245").PN. (active adj backplane) not ((((active adj backplane)) not ((((active adj backplane))) not ((((active adj backplane))) not ((((active adj backplane))) and (pixel and transistor)) or ((((((((active adj backplane))))) and (pixel and transistor))) and (active adj backplane)) and (capacits)) not (((((((((active adj backplane)))))) and (((((((((active adj backplane))))))) and (activs)) and (activs)) and (activs) and (pixel and transistor)) and (activs) or energis()) and electrode) and ((capacits)) and (active) adj backplane) not (((((active adj backplane)))) and ((((active adj backplane)))) not ((((active adj backplane)))) and ((active adj backplane))) and ((active adj backplane)) not ((((active adj backplane)))) and (pixel and transistor))) and (address) and (active adj backplane)) and (pixel and transistor))) and (address) and (active adj backplane)) and (pixel and transistor))) and (address) and (active adj backplane)) and (pixel and transistor))) and (address) and (active adj backplane)) and (pixel and transistor))) and (address) and (active adj backplane)			"51364/U" "51629//" "51855UZ"		
40 (active adj backplane) not ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) not ((((active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (active adj backplane)) and electrode) and (capacit\$4)) not (((((((active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (active adj backplane)) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane)) not (semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not ((((((active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode and (capacit\$4)) and electrode and (capacit\$4)) and electrode and (capacit\$4)) and conductor adj active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (address\$4 and (active adj backplane)) and (address\$4 and (active adj backplane)) and (address\$4 and (active		1 40		HEDAT.	2003/12/16
adj backplane)) not ((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or (((((((active adj backplane)) and (pixel and transistor)) and (pixel and transistor)) and (activ\$\frac{4}{4}\$ or energi\$\frac{4}{4}\$)) and (pixel and transistor)) and (active adj backplane)) and (pixel and transistor)) and (activ\$\frac{4}{4}\$ or energi\$\frac{4}{4}\$)) and electrode) and (capacit\$\frac{4}{4}\$)) and (activ\$\frac{4}{4}\$ or energi\$\frac{4}{4}\$)) and electrode) and (capacit\$\frac{4}{4}\$)) and electrode) and (capacit\$\frac{4}{4}\$)) and diode)) or ((((active adj backplane)) not (semiconductor adj active adj backplane)) not ((setive adj backplane)) not ((active adj backplane)) and (pixel and transistor))) and (address\$\frac{4}{4}\$ and (active	-	40	hackning) not (somiconductor add setime		1
backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) or ((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4) not ((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or (((active adj backplane) not (semiconductor adj active adj backplane)) not ((semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active			packprane, not (semiconductor adj active		1 10.33
adj backplane)) and (pixel and transistor)) or ((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or (((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
transistor)) or (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4 and (active			packplane) not (semiconductor adj active	L TELL_T DE	
backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not ((((active adj backplane)) not (semiconductor adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane)) not (((active adj backplane)) and (pixel and transistor))) and (address\$4 and (active			transistor)) or (((((active ad)		
transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) not (((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (jixel and transistor))) and (address\$4 and (active					
and electrode) and (capacit\$4)) not ((((((((active adj backplane) not					
<pre>(((((((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj adj backplane)) and (pixel and transistor))) and (address\$4 and (active</pre>		1			
<pre>(semiconductor adj active adj backplane)) and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active</pre>					
and (pixel and transistor)) and (activ\$4 or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active			((((((active adj backplane) not		
or energi\$4)) and electrode) and (capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
<pre>(capacit\$4)) and diode)) or ((((active adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active)</pre>					
adj backplane) not (semiconductor adj active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
active adj backplane)) not (((active adj backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
<pre>backplane) not (semiconductor adj active adj backplane)) and (pixel and transistor))) and (address\$4 and (active</pre>	1				
adj backplane)) and (pixel and transistor))) and (address\$4 and (active					
transistor))) and (address\$4 and (active	1				1
transistor))) and (address\$4 and (active adj element)))) and (address\$4)))					
adj element)))) and (address\$4)))	1		transistor))) and (address\$4 and (active		
	1	<u> </u>	adj element)))) and (address\$4)))	<u></u>	<u> </u>

St. 1

	1	· · · · · · · · · · · · · · · · · · ·		
-	15	((active adj backplane) not ((((active	USPAT;	2003/12/16
		adj backplane) not (semiconductor adj	US-PGPUB;	18:37
		active adj backplane)) not (((active adj	EPO; JPO;	
		backplane) not (semiconductor adj active	IBM_TDB	
		adj backplane)) and (pixel and		
}		transistor)) or ((((((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor)) and (activ\$4 or energi\$4))		
	1	and electrode) and (capacit\$4)) not		
	1	((((((active adj backplane) not		
		(semiconductor adj active adj backplane))	į	
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) and diode)) or (((active		
1		adj backplane) not (semiconductor adj		
		active adj backplane)) not (((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		[
		transistor))) and (address\$4 and (active		
		adj element)))) and (address\$4)))) and		
		transistor		
	7	("4229095" "5177437" "5475513"	USPAT	2003/12/16
1-	1 '	("4229095" "5177437 5475513 "5555035" "5587829" "6016224"	ONENT	18:36
				10.30
	1	"6348990").PN.	IISDAT.	2003/12/17
-	25	((active adj backplane) not (((active	USPAT;	
		adj backplane) not (semiconductor adj	US-PGPUB;	13:57
İ		active adj backplane)) not ((((active adj	EPO; JPO;	
		backplane) not (semiconductor adj active	IBM_TDB	
		adj backplane)) and (pixel and		
		transistor)) or (((((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor)) and (activ\$4 or energi\$4))		ĺ
		and electrode) and (capacit\$4)) not		
		(((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) and diode)) or (((active	1	
		adj backplane) not (semiconductor adj		
		active adj backplane)) not (((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor))) and (address\$4 and (active		
		adj element)))) and (address\$4)))) not	1	
		(((active adj backplane) not (((active	1	
		adj backplane) not (semiconductor adj		
		active adj backplane)) not (((active adj	1	
		backplane) not (semiconductor adj active	1	
		adj backplane)) and (pixel and		
		transistor)) or (((((active adj		
		backplane) not (semiconductor adj active	1]
		adj backplane)) and (pixel and	1	
		transistor)) and (activ\$4 or energi\$4))		
		and electrode) and (capacit\$4)) not	1	
		(((((((active adj backplane) not		
		(semiconductor adj active adj backplane))		
		and (pixel and transistor)) and (activ\$4		
		or energi\$4)) and electrode) and		
		(capacit\$4)) and diode)) or (((active		
		adj backplane) not (semiconductor adj		
		active adj backplane)) not (((active adj		
		backplane) not (semiconductor adj active		
		adj backplane)) and (pixel and		
		transistor))) and (address\$4 and (active		
		adj element)))) and (address\$4)))) and		
		transistor)		
		A		***************************************

	202		MCDAM.	2003/12/17
-	283	(Active adj matrix) and (backplane)	USPAT; US-PGPUB;	13:57
			EPO; JPO;	13.57
			IBM TDB	
_	167	((Active adj matrix) and (backplane)) and	USPAT;	2003/12/17
_	10,	electrode and array	US-PGPUB;	13:58
		cicociode dia diray	EPO; JPO;	
		,	IBM TDB	
_	151	(((Active adj matrix) and (backplane))	USPAT;	2003/12/17
		and electrode and array) and (substrate)	US-PGPUB;	13:58
		-	EPO; JPO;	
			IBM_TDB	
-	54	((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
		and electrode and array) and (substrate))	US-PGPUB;	13:59
		and (deplet\$4 or dop\$4)	EPO; JPO;	
			IBM_TDB	1
-	0	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
		and electrode and array) and (substrate))	US-PGPUB;	13:59
		and (deplet\$4 or dop\$4)) and (charge\$4	EPO; JPO;	
		near3 miplant)	IBM_TDB	2002/12/17
-	0	<pre>(((((Active adj matrix) and (backplane)) and electrode and array) and (substrate))</pre>	USPAT; US-PGPUB;	2003/12/17 13:59
		and (deplet\$4 or dop\$4)) and (charge\$4	EPO; JPO;	13.39
		near3 implant)	IBM TDB	
_	1	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
_	1	and electrode and array) and (substrate))	US-PGPUB;	14:02
		and (deplet\$4 or dop\$4)) and (charge\$4	EPO; JPO;	11102
		near3 trap\$4)	IBM TDB	
_	0	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
!		and electrode and array) and (substrate))	US-PGPUB;	14:03
		and (deplet\$4 or dop\$4)) and (capacit\$4))	EPO; JPO;	
		and (gurad adj ring)	IBM_TDB	
-	0	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
		and electrode and array) and (substrate))	US-PGPUB;	14:03
		and (deplet\$4 or dop\$4)) and (capacit\$4))	EPO; JPO;	
		and (guard adj ring)	IBM_TDB	2002/10/17
-	0	((((((Active adj matrix) and (backplane))	USPAT;	2003/12/17 14:03
	1	and electrode and array) and (substrate))	US-PGPUB;	14:03
		and (deplet\$4 or dop\$4)) and (capacit\$4))	EPO; JPO; IBM TDB	
	2	<pre>and (depletion adj region) (((((Active adj matrix) and (backplane))</pre>	USPAT;	2003/12/17
-	2	and electrode and array) and (substrate))	US-PGPUB;	14:04
		and (deplet\$4 or dop\$4)) and (capacit\$4))	EPO; JPO;	
		and ((bit adj line) and (word adj line))	IBM TDB	
-	34	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
	1	and electrode and array) and (substrate))	US-PGPUB;	14:42
	1	and (deplet\$4 or dop\$4)) and (capacit\$4)	EPO; JPO;	
			IBM_TDB	
-	0	20030222315.URPN.	USPAT	2003/12/17
				14:21
-	20	(((((Active adj matrix) and (backplane))	USPAT;	2003/12/17
		and electrode and array) and (substrate))	US-PGPUB;	14:42
		and (deplet\$4 or dop\$4)) not (((((Active	EPO; JPO;	
		adj matrix) and (backplane)) and	IBM_TDB	
		electrode and array) and (substrate)) and (deplet\$4 or dop\$4)) and (capacit\$4))		
	.	[(debrecha or dobball and (cabacresal)		<u> </u>